200500087

# THIR UNITED STATES OR AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Nioneer Hi-Bred International, Inc.

HIGGERS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE GHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'95M81'

In Testimonn Mercent, I have hereunto set my hand and caused the seal of the Flant Mariety Protection Office to be affixed at the City of Washington, D.C. this twenty-third day of June, in the year two thousand and five.

\_Attest:

Ben J.

Commissioner Plant Variety Protection Office Agricultural Marketing Service crotary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552e) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

NAME OF OWNER Pioneer Hi-Bred Inter .			TEMPORARY DESIGNATI EXPERIMENTAL NAME  XB58Z04	ON OR	3. VARIETY NAME 95M81		
<ol> <li>ADDRESS (Street and No., or R.F.D. No. 7300 N. W. 62<sup>nd</sup> Avenue P.O. Box 1004 Johnston, IA 50131</li> </ol>	, City, State, and ZIP Code, and Count	ry)		5. TELEPHONE (include area code) 515-254-2638		FOR OFFICIAL USE ONLY  PVPO NUMBER	
	. /		6. FAX (include area code) 2 ()		1500087		
			-	515-253-2478		FILING DATE	
7. IF THE OWNER NAMED IS NOT A *PERS ORGANIZATION (corporation, partnership Corporate	8. IF INCORPOR STATE OF INC lowa	TED, GIVE 9. DATE OF INCORPORATION May 6, 1926			1/18/2005		
10. NAME AND ADDRESS OF OWNER R Daria Schmidt, Ph. D. 7300 N.W. 62 <sup>th</sup> Avenue P.O. Box 1004 Johnston ,IA 50131-1004	HIS APPLICATION.	(First person listed will	l receive all papers)		FILING AND EXAMINATION FEES:  \$ 3,652.00  DATE 1/18/2005		
:						certification fee: \$\footnote \footnote \footn	
11. TELEPHONE (Include area code) 515-254-2638	, , , , , , , , , , , , , , , , , , , ,				14. CRC Soybean	OP KIND (Common Name)	
18. CHECK APPROPRIATE BOX FOR EACH reverse)  a.	,	instructions on	19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)  U YES (If "yes", answer items 20 and 21 below)  x NO (If "no," go to item 22)				
b.	ion of Variety tion of the Variety (Optional)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS YES NO VARIETY BE LIMITED AS TO NUMBER OF CLASSES?  IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED				
e. X Exhibit E. Statement of the B  f. X Voucher Sample (2,500 viable verification that tissue culture we repository)	approved public	LIMITED AS 1	21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS?  IF YES, SPECIFY THE SECURITIES OF GENERATIONS OF GENERAT				
g. X Filing and Examination Fee ( States" ( <i>Mail to the Plant Variet</i>	\$2,705), made payable to "Treasurer o y Protection Office)	f the United	NUMBER 1, 2		٠	REGISTERED CERTIFIED ce indicated on the reverse.)	
22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISPOTHER COUNTRIES?  YES  IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCU	OSED OF, TRANSFERRED, OR USE	D IN THE U.S. OR	PROPERTY F	RIGHT (PLANT BREEDER'S RIG	HT OR PAT	NO E AND ASSIGNED	
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.							
SIGNATURE OF OWNER  DAVIG 7. Sch		SIGNATURE OF OWNER					
NAME (Please print or type) Daria H. Schmidt		NAME (Please prin	nt or type)				
CAPACITY OR TITLE Director, Technology Integration and Associativ	105	CAPACITY OR TIT			DATE		
-470 (04-01) designed by the Plant Variety Pro	tection Office with WordPerfect 6.0a.	Replaces STD-470	02-99) which is obsol	ete. (See reverse for instri	uctions and	information collection burden statement)	

200500087

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filling fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

#### ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety,

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center.-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

#### Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 95M81

Variety 95M81 evolved from a cross made in the summer of 1998 in Mississippi with the following parentage:

9631/96B21\*

\*96B21 line with the Roundup Ready (40-3-2) gene (50 (87:1/31/2005)

Variety 95M81 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 95M81 was grown in a plant row yield trial in Mississippi in the summer of 2000. Subsequently, 95M81 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, resistance to Frogeye leaf spot and southern root knot nematode, and resistance to Roundup branded herbicides, variety 95M81 was assigned a commercial number.

The purification block was grown in 2002 Memphis and 54 sublines were harvested. A two (2) acre increase was grown in Argentina in the winter of 2002/03. Ninety-one (91) acres of parent seedstock (foundation seed equivalent) were grown in 2003 and approximately 995 acres of seedstock and production seed were grown in the summer of 2004.

#### **Exhibit B.** Statement of Distinctness

Soybean Variety 95M81

Variety 95M81 is most similar to 95M80. Both varieties have purple flowers, gray pubescence, imperfect black hila, and resistance to Roundup branded herbicides. However, 95M81 is susceptible to Race 3 Soybean cyst nematode whereas 95M80 is resistant to Race 3 Soybean cyst nematode. Soybean variety response to cyst nematode races is determined from multiple year (at least three), replicated bioassay screening in a controlled growth chamber environment with soil media sufficiently inoculated with nematodes. In all cases, known resistant and susceptible checks are brighting included in bioassay screens for data quality assurance.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

	-		S	<b>DYBE</b>	AN (G	lycir	<i>ie max</i> (L.) Merr	:.)		•
NAME OF APPLICANT(S) Pioneer Hi-Bred, International, 2016.	B <b>t</b> :1/31/2	wo5)							FOR OFFICIAL &	SE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Cod  7300(bt:1/3)/2005 per applicant's authorization)  P.O Box 1004  Johnston, IA 50131-1004							00500087 variety name 95M81			
									TEMPORARY O DESIGNATION XB5 <i>820</i>	r experimental 4> (ct:1/31/2005)
PLEASE READ ALL INSTRUC	TIONS CA	REFULL	Y: Place t	he appr	ropriate	num	ber that describes th	e varietal charac	ter of this vari	ety in the boxes below.
Place a zero in the first box (e.g. quantitative	9	9	9 or	0	9	)	when number is eit	her 99 or less or	9 or less respe	ctively. Data for
plant characters chould be based	on a minin	num of 10	) plants.	Compa	rative d	ata sl	ould be determined	from varieties e	ntered in the sa	me trial. Royal
Horticulutral Society or any reco	gnized colo	r standar	d may be	used to	determ	ine pl	ant colors; designate	system used:		•
Please answer all questions for yo	ur variety:	lack of re	sponse m	ay dela	y progr	ess of	your application.			
A. MORPHOLOGY							· .			
Seed Shape:  1 = Spherical					2	C.L.	erical - Flattened	1		
2 (L/W, L/T, a)		atios < 1	1.2)			_	tio > 1.2; L/T ra			
3 = Elongateo (L/T ratio . 1.		atio < 1	.2)				igate - Flattened io > 1.2;T/W rat	io > 1.2)	•	
Seed Coat Color:	•									
1 1 = Yel	low	2 = Gr	een	3 =	Brow	n	4 = Black	5 = Other	•	
Seed Coat Luster:			·					(Please S <sub>l</sub>	pecify	
1 1 = Dull	l	2 = Shi	ny	•			·			
Seed Size:							•			
12.6	00 seeds									
Hilum Color:										
$ \begin{array}{c} 1 = Buf \\ 6 = Bla \end{array} $	_	2 = Yel 7 = Otl	low ner <i>(Ple</i>		Brown ecify)	<b>n</b>	4 = Gray	5 = Imper	fect Black	

### A. MORPHOLOGY (Continued)

2005000 87

**Cotyledon Color:** 

1

1 = Yellow

2 = Green

**Seed Protein Peroxidase Activity:** 

2

1 = Low

2 = High

Hypocotyl Color:

3

1 = Green ('Evans' or 'Davis')

2 = Green with Bronze Bands below Cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to

unifoliolate leaves ('Hodgson', 'Coker', or

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

2

1 = White

2 = Purple

3 = White with a Purple Throat

**Pod Color:** 

1

1 = Tan

2 = Brown

3 =Black

**Pubescence Color:** 

1

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

1

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

**Maturity Group:** 

08

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

15 = XII

**Maturity Subgroup:** 

8

Please enter a value from 0 - 9

#### **B. DISEASE REACTION**

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

#### **Bacterial**

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf\_Foster) Young, Dye, Wilkie)

Funga	d.									
1	Brown Spot (	Septori	ia glycin	<i>es</i> Hemmi)				•		
	Frogeye Leaf S	Spot (	Cercosp	ora sojina Ha	ra)					
2	race 1		0	race 2		0	ra	ce 3	0	race 4
0	race 5		0	race 6		0	o	the (Please Specify)		
0	Target Spot (C	Corynes	spora ca	ssiicola (Berl	k. C	Curt.) Wei)				
0	Downey Mildew (Peronospora trifoliorum var. manchurica (Naum.) Syd. ex Gäum)									
0	Powdery Mildew (Microsphaera diffusa Cke. and Pk.)									
0	Brown Stem Rot (Phialophora gregata (Allington Chamberlain) W. Gams.)									
0	Stem Canker (Diaporthe phaseolorum (Cke. and Ell.) Sacc. var. caulivora Athow and Caldwell)									
1	Pod and Stem Blight (Diaporthe phaseolorum (Cke. and Ell.) Sacc. var. sojae (Lehman) Wehm.									
0	Purple Seed Sta	in (	Cercosp	ora kikuchü	(T.	Matsu. and Tomo	yasu)	Gardener)		
1 Rhizoctonia Root Rot (Rhizoctonia solani Kühn)										
Phytop	hthora Root Rot (	[Phyto]	phthora	megasperma	Di	rechs. f. sp. <i>glycin</i>	ea (K	uan "Erwin))		
0	race 1	0	race	8	0	race 15	0	race 22		
0	race 2	0	race	9	0	race 16	0	race 23	,	
0	race 3	0	race	10	0	race 17	0	race 24		
1	race 4	0	race	11	0	race 18	0	race 25	÷	
0	race 5	0	race	12	0	race 19	0	race 26		
0	race 6	0	race	13	0	race20	0	Other (Please Speci	fy)	
1	race 7	0	race	14	0	race 21		ا ا		
1	1 Bud Blight (Tobacco Ringspot Virus)									
1	Yellow Mosaic (l	bean Y	ellow N	Aosaic Virus)	)					

0 = Not Tested

1 = Susceptible

B. DISEASE REACTION (Continued)

B. DIS	SEASE REACTIONS (Continued) 0 = Not Tested 1 = Susceptible 2 = Resistant	3 = Tolerant
Funga	al	
1	Cowpea Mosaic (Cowpea Chlorotic Virus)	
1	Pod Mottle (Bean Pod Mottle Virus)	
1	Seed Mottle (Soybean Mosaic Virus)	•
Nema	tode	
Soybe	ean Cyst Nematode (Heterodera glycines Ichinohe)	
0	race 1 0 race 9	
0	race 2 0 race 5 0 race 14	
1	race 3 0 Other (Please Specify)	
0	Lance Nematode (Hoploaimus columbus Sher)	
2	Southern Root Knot Nematode (Meloidogyne incognita (Kofoid and White) Chitwo	
2	Northern Root Knot Nematode (Meloidogyne hapla Chitwood)	•
0	Peanut Root Knot Nematode (Meloidogyne arenaria (Neal) Chitwood)	
0	Reniform Nematode (Rotylenchus reniformus Linwood and Olivera)	
0	Javanese Nematode (Meloidogyne javanica (Treub) Chitwood)	
0	Other Nematode (Please Specify) 0	
' PH	YSIOLOGICAL RESPONSES 0 = Not Tested 1 = Susceptible 2 = Resistant	3 = Tolerant
0	Iron Chlorosis on Calcareous Soil	
0	Other (Please Specify) O	
0	Boron	
0	Aluminum	
0	Salt	
0	Drought	

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
Fungal				
Mexican Bean Beetle (Epilachna va	rivestis Mulsant)			
O Potato Leaf Hopper (Empoasca fabo	ae (Harris))	·		
O Other (Please Specify)		·		
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
0 Metribuzin				
0 Bentazone				
1 Sulfonylurea				
2 Glyphosate				
0 Glufosinate				
0 Pendimethalin				
Other (Please Specify) 0				
F. TRANSGENIC COMPOSITION		-		
Has the development of the subject variety inclu the removal of genetic material from the applica		f genetic material f	rom an organism (	other than a soybean, or,
If yes, please complete the following infomation	requests*. Use add	itional pages if nec	essary.	
1. Please state the vector's name:				
2. Please state the vector components:				•
3. Please describe the genetic material successfu	lly transferred into	the subject variety	<b>7:</b>	
4. Please describe the insertion protocol:				
* A literature citation(s) explaining the four in "Transgenic Composition" portion of this form, the vector components and insert elements are subsequent, Identification, and Characterization.	This section is full ummarized in Figur	ly addressed in the re 1 and Table 1 on	following publicate page 1453. Padge	tion. Specific details of ette, S.R. et al.
G. BIOCHEMICAL MARKERS			· · · · · · · · · · · · · · · · · · ·	
Please describe any biochemical information her Simple Sequences Repeats, Restriction Fragment				

necessary.

## H. COMMENTS

## **Exhibit D.** Additional Description of the Variety

Soybean Variety 95M81

In Exhibit C we have identified variety 95M81 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 95M81 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 95M81 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 95M81 is a late Group 5 variety. If Group 5 varieties are divided into tenths, the relative maturity of 95M81 is 5.8.

REPRODUCE LOCALLY. Include form number and edition date on al	i reproductions.	ORM APPROVED - OMB No. 0581-0055				
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paper Reduction Act (PRA) of 1995.					
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to dete certificate is to be issued (7 U.S.C. 2-confidential until the certificate is issu	(21). The information is held				
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME				
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER	95M81				
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)				
7300 N.W. 62 <sup>nd</sup> Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478				
Confiscon, in Condition	7. PVPO NUMBER	·				
	200500	1087				
8. Does the applicant own all rights to the variety? Mark an "X" in the If no, please explain.	e appropriate block.	X YES NO				
9. Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES NO				
10. Is the applicant the original owner?	If no, please answer one of the following	owing:				
L XYES L N	0					
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?				
YES NO If no, give name of count	ry					
b. If the original rights to variety were owned by a company(ies)	in (are) the original ourser(s) all S ha	and company?				
		sed company?				
YES NO If no, give name of country	ry					
11. Additional explanation on ownership (If needed, use the reverse	for extra space):					
•						
Please Note:						
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:					
<ol> <li>If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals o</li> </ol>	erson must be a U.S. national, national of the U.S. for the same genus and speci	of a UPOV member country, or es.				
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.</li></ol>						
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.				
The original breeder/owner may be the individual or company who di Act for definitions.	rected the final breeding. See Section 4	1(a)(2) ot the Plant Variety Protection				
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0581-0055. The time required to complete this information constructions, searching existing data sources, gathering and maintaining the data needed, an	collection is estimated to average 6 minutes per respo	nse, including the time for reviewing the				
The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the t status. (Not all prohibited bases apply to all programs). Persons with disabilities who require contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).	pasis of race, color, national origin, sex, religion, age, a alternative means for communication of program inf	disability, political beliefs, and marital or familial ormation (braille, large print, audiotape, etc.) should				

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

ST-470-E (04-99) (Destroy previous editions),

12